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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

07/20/2009

MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907 EXAMINER

GEBREYESUS, KAGNEW H

ART UNIT PA

PAPER NUMBER

1656

DATE MAILED: 07/20/2009

۱	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/594,064	09/25/2006	Janine T. Bryan	21571P	5405

TITLE OF INVENTION: OPTIMIZED EXPRESSION OF HPV 52 L1 IN YEAST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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				[(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/594,064	09/25/2006			Janine T. Bryan				21571P	5405
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APPLN. TYPE	SMALL ENTITY	ISSU	JE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0 \$181		\$1810	10/20/2009
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GEBREYESUS	S, KAGNEW H		1656	435-069100					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	' Indicati ed. Use o A TO BE	on form of a Customer PRINTED ON Tow, no assignee	data will appear on th	ingle or ag attorn be p r type e pa an a	firm (having as a gent) and the name news or agents. If in the contract of the	membes of uno name	p to le is 3lentified below, the do	ocument has been filed for
Please check the appropr	iate assignee category or	categorie	es (will not be pr	inted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
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	s SMALL ENTITY statu	is. See 37						ΓΙΤΥ status. See 37 CF	
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10/594,064 09/25/2006		Janine T. Bryan	21571P	5405	
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MERCK AND C	CO., INC	GEBREYESUS, KAGNEW H			
P O BOX 2000			ART UNIT	PAPER NUMBER	
RAHWAY, NJ 07	065-0907	1656			
			DATE MAILED: 07/20/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 499 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 499 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/5 9 4,064	BRYAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	KAGNEW H. GEBREYESUS	1656	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>9/25/2006</u> .			
2. ⊠ The allowed claim(s) is/are <u>1-7</u> .			
3.	been received. been received in Application No cuments have been received in this is of this communication to file a reply of this application. itted. Note the attached EXAMINER' as reason(s) why the oath or declarate be submitted. son's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in sit of BIOLOGICAL MATERIAL in	complying with the received applicational stage application application of the front (not the d).	quirements OTICE OF
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other /Andrew Wang/ Supervisory Patent Examiner	(PTO-413), ite nent/Comment ent of Reasons for Allo	

Application/Control Number: 10/594,064

Art Unit: 1656

DETAILED ACTION

Applicant's election without traverse dated May 5, 2009 is acknowledged. Claims

Page 2

8-15, 17-23, 25 and 27 are withdrawn from further consideration pursuant to 37 CFR

1.142(b), as being drawn to non-elected groups, there being no allowable or linking

claims. Claims 1-7 are present for examination.

Priority

Priority for this application is acknowledged for benefit of U.S. Provisional

Application No. 60/555926, filed on March 24, 2004.

Information Disclosure Statement

The information disclosure statement filed 9/25/2006 and 7/5/2007 for which a

copy of the patent publication has been submitted in this application has been

considered.

Oath/Declaration

The oath or declaration submitted on 9/25/2006 has been reviewed and is in

compliance with 37 CFR 1.63.

EXAMINER'S AMENDMENT

Cancel claims 8-23, 25 and 27.

On page 14, line 18, of the specification amend the recitation "58 L1 R" to "52 L1 R".

Conclusion: Claims 1-7 are allowed.

Art Unit: 1656

The closest prior art identified is by Jansen et al (US PAT 7276243) filed on March 23, 2003. Jansen et al teach a nucleic acid that encodes a codon optimized HPV-31 L1 polypeptide that shows 83% best local similarity to the polynucleotide that encodes the polypeptide of SEQ ID NO: 2 in the instant invention (see alignment in SCORE). Jansen et al do not, however, disclose the nucleic acid of codon modified HPV-52 L1 of SEQ ID NO: 1, and there is no teaching of expression of SEQ ID NO: 1 in yeast cell in general, or *Saccharomyces cerevisiae* in particular. To form this determination the Office has relied on the holdings of: In re Deuel, 51 F.3d 1552, 1558-59, 34 USPQ2d 1210, 1215" (Fed. Cir. 1995); and In re Bell, 991 F.2d 781, 26 USPQ2d 1529 (Fed. Cir.1993).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAGNEW H. GEBREYESUS whose telephone number is (571)272-2937. The examiner can normally be reached on 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANDREW WANG can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kagnew H Gebreyesus/ Examiner, Art Unit 1656 Application/Control Number: 10/594,064 Page 4

Art Unit: 1656

7/10/2009.

/Andrew Wang/

Supervisory Patent Examiner, Art Unit 1656